

ABSTRACT OF THE INVENTION

A multiple reflective mirrors module is described. The module is utilized in an optical engine of a business machine, such as a projector, a laser printer, a copy machine, or a scanner. The module has a fixed reflective mirror, a first tilting reflective mirror, and a second tilting reflective mirror. The first tilting reflective mirror receives an incident light and reflects the incident light to the fixed reflective mirror. Subsequently, the light is reflected by the fixed reflective mirror to the second tilting reflective mirror. Therefore, the second tilting reflective mirror generates an output light. When the first tilting reflective mirror rotates within an angle θ_1 and the second tilting reflective mirror rotates within an angle θ_2 , the output light is capable of rotating within an output angle, twice of $\theta_1 + \theta_2$. The fixed reflective mirror can be replaced by another tilting reflective mirror.